

MAXWELL JONES

(631) 804-4114 | maxwelljon.es | mjones2@andrew.cmu.edu |
www.linkedin.com/in/maxwelljones14 | github.com/maxwelljones14

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Artificial Intelligence
Additional Major in Mathematics

Expected Graduation: May 2023
GPA: 4.0/4.0

Thomas Jefferson High School for Science and Technology, Alexandria, VA
High School Diploma

2015-2019
GPA: 4.1/5.0

PROJECTS

MIT BattleCode

January 2021

- Worked on team of 4, coding an AI bot in java to compete in a tournament run every year by MIT.
- Leveraged distributed communication algorithms and pathfinding to increase bot's effectiveness.
- Placed 9th out of over 250 teams internationally, 1st out of all first-time teams.

Walksafe | CMU TartanHacks

February 2020

- Developed a Python program on team of 4 that calculates safe and efficient walking paths at night in New York City.
- Created a weighted graph from crime and street data and implemented an A* algorithm to generate optimal paths.
- Integrated Open Street Map API and fetched data from NYPD crime database REST endpoint.

Origami Social Network

August 2018-May 2019

- Developed a Node.js application that allows origamists to connect with each other and share their work
- Implemented user accounts, used MD5 hashing to safely store passwords, added cookies to store login data.

EXPERIENCE

SWE/ML Intern | Facebook

Summer 2021

- Developed a data perturbation training/evaluating/testing pipeline for the Probability: Uncertainty team.
- Designed and tested probabilistic pytorch models to analyze out of distribution data recognition.
- Specifically focused on MNIST and FashionMNIST datasets, comparing different model architectures

Data Science Intern | Fiat Chrysler Automobiles

Summer 2020

- Optimized the HR absentee prediction model in Python resulting in a 2% increase in accuracy.
- Improved neural network performance by cross referencing crew attendance across plants.
- Queried data from PostgreSQL database and used Pandas dataframe library to store query results.

Teaching Assistant | Multiple Courses

Fall 2020, Spring 2021, Fall 2021

- TA for both 15-151 Discrete Math and 15-251 Theoretical Ideas in Computer Science.
- Teach 20-student recitation twice per week as well as helping and creating course content.
- Lead review Sessions and game nights with >100 people per event
- Host weekly office hours, grade homework and exams, and attend weekly staff meetings.

SKILLS

Programming: Python | Java | C | SQL | Julia | JavaScript | HTML | Latex

Tools/Frameworks: Sklearn | Keras | NumPy|Pytorch | Jupyter Notebook | Pandas | Git | Unix Command Line

Coursework: 15-281 Artificial Intelligence | 10-315 Machine Learning | 15-2s13 Computer Systems | 15-251 Great Theoretical Ideas in Computer Science | 15-122 Principles of Imperative Computation | 21-325 Probability Theory | 21-260 Differential Equations | 15-151 Concepts in Mathematics | 21-484 Graph Theory.

INVOLVEMENT

Treasurer for CMU's Black Student Union, Origami Club Officer, Club Basketball, Kappa Sigma Fraternity.